Production Process, Applications, and Maintenance of Artificial Branches Without Metal Wire

With the growing use of artificial plants in indoor and outdoor landscapes, commercial spaces, and home decoration, traditional branches reinforced with metal wires have gradually revealed their drawbacks such as rusting, breaking, and lack of eco-friendliness. In recent years, **artificial branches without metal wire** have emerged as a new trend in the industry. This article introduces their production process, application scenarios, and maintenance methods.

1. Production Process

Artificial branches without metal wire are mainly manufactured using eco-friendly polymers such as PE (polyethylene) and PU (polyurethane). These materials are flexible and moldable, providing sufficient support without the need for internal metal reinforcement. Key techniques include: 1. Injection Molding: Ensures uniform thickness and a natural appearance of leaves and stems. 2. Hot-Press Forming: Enhances strength and flexibility, reducing the risk of breakage during use. 3. Reinforced Stem Design: Additional grooves or thickened stems improve overall stability. 4. Slot Assembly: Branches are connected to trunks using slots or sockets, eliminating the need for metal adhesives.

2. Application Scenarios

Thanks to their safety and eco-friendliness, artificial branches without metal wire are widely applied in: - Indoor Decoration: Offices, hotel lobbies, shopping mall displays. - Outdoor Landscaping: Parks, leisure squares, and urban greenery projects. - Commercial Use: Holiday decorations (e.g., Christmas tree branches), wedding backdrops, stage setups. - Special Environments: Airports, hospitals, and other public spaces with strict fireproof and rust-free requirements.

3. Maintenance Methods

Artificial branches without metal wire are easy to maintain, but some precautions should be taken: 1. Daily Cleaning: Use a dry cloth or soft brush to gently remove dust. 2. Deep Cleaning: For stubborn stains, wipe with diluted neutral detergent and allow to air dry naturally. 3. Avoid Prolonged Sun Exposure: Long-term exposure to high temperatures may cause fading or material aging. 4. Regular Shaping: Due to their flexibility, branches can be reshaped periodically to maintain a neat and aesthetic look.

Artificial branches without metal wire not only address the issues of rust and safety hazards found in traditional products but also provide significant advantages in terms of sustainability, durability, and aesthetics. Their application prospects in landscape decoration and commercial displays will continue to expand in the future.